PATENT COOPERATION TRE,

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of	of Transmittal of International Search Report
1855.1052005	ACTION (Form PCT/ISA/2	(20) as well as, where applicable, item 5 below.
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/US 01/03537	02/02/2001	03/02/2000
Applican:		03/02/2000
MILLENNIUM PHARMACEUTICALS	S, INC. et al.	
This international Search Report has been according to Article 18. A copy is being tra-	prepared by this International Searching Authorsmitted to the International Bureau.	ority and is transmitted to the applicant
This International Secret Bones against		
This International Search Report consists of the literature of the	of a total of	·
		sport.
1. Basis of the report		
With repard to the language, the in language in which it was filed, unless	sternational search was carned out on the basis as otherwise indicated under this item.	of the international application in the
• • • • • • • • • • • • • • • • • • • •	s carried out on the basis of a translation of the	
 With regard to any nucleotide and/ was carried out on the basis of the s 	or amino acid sequence disclosed in the intersequence listing:	mational application, the international search
Contained in the international	· -, · · · · · · · · · · · · · ·	
	ational application in computer readable form.	
furnished subsequently to th		
	is Authority in computer readble form.	
the statement that the subseinternational application as fi	quently furnished written convenes to	not go beyond the disclosure in the
the statement that the inform furnished	ation recorded in computer readable form is ide	entical to the writter: sequence listing has been
2. Certain claims were found	unsearchable (See Box I).	
3. Unity of invention is lacking	g (see Box II).	
4. With regard to the title,		
the text is approved as submi	Had by the population	
	by this Authority to read as follows:	
<u></u>	by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as submit	ted by the applicant.	
the text has been established.	according to Rule 38.2(b), by this Authority as i e of mailing of this international search report, si	t appears in Box III. The applicant may, ubmit comments to this Authority.
6. The figure of the drawings to be published	d with the abstract is Figure No.	<u></u>
as suggested by the applicant.		None of the figures.
because the applicant failed to	suggest a figure.	
because this figure better char	acterizes the invention.	

INTERNATIONAL SEARCH REPORT

international Application No PCT/US 01/03537

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C12N15/62 C07K16/28

C12N5/10

A61P37/06

A61K39/395

CO7K16/46 A61P9/10

C12N15/13 A61P19/02

C12N15/63 A61P31/18

According to international Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols) IPC 7 C07K

Documentation searched other than minimum occumentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

BIOSIS, EMBASE, CHEM ABS Data, WPI Data, PAJ, EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT	
Catagoni (Chaves et els es es es es	

Category: "	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	WO 97 31949 A (PHARMACIA & UPJOHN SA ET AL.) 4 September 1997 (1997-09-04) page 8, line 27 -page 11, line 8 discussion claims	1-101
Y	WO 91 09967 A (CELLTECH LTD.) 11 July 1991 (1991-07-11) the whole document	1-101
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Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
*Special categories of cited documents :	
'A' occument defining the general state of the land which is not considered to be of particular relevance. 'E' earlier document but published on or after the international filling date. 'L' occument which may throw doubts on priority claim(s) or which is clied to establish the publication date of another citation or other special reason (as specified). 'C' occument referring to an oral disclosure, use, exhibition or other means. 'P' occument published prior to the international filling date but later than the priority date claimed.	 'T' later document published after the internation a! filing date or priority date and not in conflict with the application but cited to understand the principle or theory un deriving the invention. 'X' document of particular relevance: the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. 'Y' document of particular relevance: the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. '&' document member of the same patent family
Date of the actual completion of the international search	Date of mailing of the international search report
13 June 2001	28/06/2001
Name and mailing address of the ISA	Authorized officer
European Patent Office, P.E. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Nooij, F

INTERNATIONAL SEARCH REPORT

International Application No PCT/US 01/03537

C.(Continu	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	CT/US 01/03537
Category °		Lielavanivasia
	- FP-P	Relevant to claim No.
A	J. FRADE ET AL.: "The amino-terminal domain of the CCR2 chemokine receptor acts as coreceptor for HIV-1 infection." JOURNAL OF CLINICAL INVESTIGATION, vol. 100, no. 3, 1 August 1997 (1997-08-01), pages 497-502, XP002099012 New York, NY, USA the whole document	1-101
A	I. SANZ ET AL.: "VH sequence of a human anti-Sm autoantibody. Evidence that autoantibodies can be unmutated copies of germline genes." THE JOURNAL OF IMMUNOLOGY, vol. 142, no. 3, 1 February 1989 (1989-02-01), pages 883-887, XP002168811 Baltimore, MD, USA cited in the application abstract figure 3	14,21,82
-	P. CHASTAGNER ET AL.: "Cloning of a gene encoding a lupus-associated human autoantibody Vk region using the polymerase chain reaction and degenerate primers." GENE, vol. 101, no. 2, 30 May 1991 (1991-05-30), pages 305-306, XP002168812 Amsterdam, NL cited in the application abstract figure 1	13,16,82
	C. CHOTHIA ET AL.: "Conformations of immunoglobulin hypervariable regions." NATURE. vol. 342, -21 December 1989 (1989-12-21), pages 877-883, XP002030586 London, GB cited in the application the whole document	1-17,28, 61-67, 82-91, 98,99
X	WO 00 05265 A (LEUKOSITE, INC.) 3 February 2000 (2000-02-03) page 17, line 23 -page 20, line 33 examples claims	1-101

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.1

Although claims 47, 48, 51-56, 67-81, 94, 96 and 97 (all completely) and claims 41-46, 49, 50, 93 and 95 (all partially, as far as an in vivo method is concerned) are directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.

International application No. PCT/US 01/03537

INTERNATIONAL SEARCH REPORT

Box Observations where certain cla	aims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been	established in respect of certain claims under Article 17(2)(a) for the following reasons:
Claims Nos.: Decause they relate to subject matter to	not required to be searched by this Authority, namely:
see FURTHER INFORMATION	
<u> </u>	
2. Claims Nos.: because they relate to parts of the Internation an extent that no meaningful Internation	ernational Application that do not comply with the prescribed requirements to such anal Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and	d are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of inve	ention is lacking (Continuation of Item 2 of first sheet)
This international Searching Authority found mult	tiple inventions in this international application, as follows:
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As all required additional search fees we searchable claims.	ere timely paid by the applicant, this International Search Report solvers all
As all searchable claims could be search	ned without effort justifying an additional fee, this Authority did not invite payment
of any additional fee.	The without enough justifying an additional leet, this Authority did not invite payment
covers only those claims for which fees w	earch fees were timely paid by the applicant, this International Search Report Pere paid, specifically claims Nos.:
No required additional search fees were til restricted to the invention first mentioned in	imely paid by the applicant. Consequently, this International Search Report is in the claims: it is covered by claims Nos.:
mark on Protest	The additional search fees were accompanied by the applicant's protest.
	No protest accompanied the payment of additional search fees.
	PART ANALADIE COPY

INTERNATIONAL SEARCH REPORT

iformation on patent family members

international Application No 1 PCT/US 01/03537

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√0 0005265 /	<i>}</i>	03-02-2000		20899 A 298908 A	14-02-2000 16-05-2001